

VOLTAGE 40 to 200 Volt CURRENT	1 Ampere		SMB/	DO-	214/	AA			Unit : i	nch(mm)	
FEATURES											
<ul> <li>Plastic package has Underwriters Laboratory Flammability Classification 94V-O</li> <li>For surface mounted applications in order to optimize I</li> <li>Low power loss, high efficiency</li> <li>High surge capacity</li> <li>High current capacity ,low V<sub>F</sub></li> <li>For use in low voltage high frequency inverters, free and polarity protection applications.</li> <li>Lead free in compliance with EU RoHS 2.0</li> <li>Green molding compound as per IEC 61249 standard</li> </ul>	board spæe e wheeling,		96(2.44) 33(2.13) 0.053(2.11) 0.75(1.91)		0.	185(4.70 160(4.00	)) 5)		12(0.305) 12(0.305) 12(0.152)	<u>)</u>	
MECHANICAL DATA			0.060(	1.52)		+ 0.	.008(0.20	3)			
<ul> <li>Case: JEDEC DO-214AA molded plastic</li> <li>Terminals:Solder plated, solderable per MIL-STD-750,</li> <li>Polarity : Color band denotes cathode end</li> <li>Standard packaging: 12mm tape (EIA-481)</li> <li>Weight: 0.0032 ounces, 0.092 grams</li> </ul>	Method 2026			-	0.	220(5.55 200(5.08	)) 3)	-			
O 1 Cathode	o 2 Anode										
AXIMUM RATINGS AND ELECTRICAL CHAR	ACTERIST	ICS									
atings at 25°C ambient temperature unless otherwise sp ) Hz, resistive or inductive load.	ecified. Singl	e phase	, half w	ave,							
PARAMETER	SYMBOL	MB14	MB14A	MB15	MB16	MB18	MB19	MB110	MB115	MB120	UNIT
ximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	45	50	60	80	90	100	150	200	V
ximum RMS Voltage	V <sub>rms</sub>	28	31.5	35	42	56	63	70	105	140	v
ximum DC Blocking Voltage	V <sub>DC</sub>	40	45	50	60	80	90	100	150	200	v
ximum Average Forward Current (See Figure 1)	I <sub>F(AV)</sub>					1					A
ak Forward Surge Current :8.3ms single half sine-wave perimposed on rated load	I <sub>FSM</sub>		30						A		
	V	0.7		0.74		0.8		C	0.9		

NOTES :

Typical Thermal Resistance (Note 2)

Voltage

Maximum DC Reverse Current at Rated DC Blocking Voltage

Maximum DC Reverse Current at Rated DC Blocking

Operating Junction and Storage Temperature Range

Pulse Test with PW =300µsec, 1% Duty Cycle.
 Mounted on P.C. Board with 5mm<sup>2</sup> (0.013mm thick) copper pad areas.

T\_=25°C

T\_=100°C

 $\mathsf{I}_{\mathsf{R}}$ 

 $\mathsf{I}_{\mathsf{R}}$ 

 $\mathsf{R}_{_{\theta \mathsf{JL}}}$ 

R<sub>0JA</sub>

 $\mathsf{T}_{\mathsf{J}},\mathsf{T}_{\mathsf{STG}}$ 

-55 to +150

0.05

30

95

-65 to +175

1

2

mΑ

mΑ

°C /

W

°C



#### RATING AND CHARACTERISTIC CURVES







### ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel





# Part No\_packing code\_Version MB14\_R1\_00001

MB14\_R1\_00001 MB14\_R2\_00001

### For example :

RB500V-40\_R2\_00001

Part No.

Serial number

-

Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX					Version Code XXXXX					
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code				
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number				
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number				
Bulk Packing (B/P)	В	13"	2							
Tube Packing (T/P)	т	26mm	X							
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y							
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U							
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D							





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